

Work Order ID 91341

October-04-12 3:21:04 PM

91341

~~PRELIMINARY ISSUE~~

Page 1

Item ID: D4694-3

Accept

N900040100

Setup Start

NS1

Revision ID: PRELIM

Item Name: Channel

Stop

NS2

Start Date: 04/10/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 19/10/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan: ML5

Date: 12-10-04 Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4694	PA 4 u								
100		0.00							
100	FLOW WATER JET								
Waterjet	Memo	0.00							
FLOW CNC Waterjet	1-Cut as per Dwg Dwg Rev: <u>PAK</u> Prog Rev: <u>PAK</u> 2-Deburr if necessary								
6061 .040									
110	QC2- Inspect parts off machine FAI/FAIB	0.00							
110									
QC	Memo	0.00							
Quality Control									
120	QC8- Inspect parts - second check	0.00							
120									
QC	Memo	0.00							
Quality Control									

(2)

12-10-7

(2)

12-10-7

2

As per
Dwg Rev PAK

SMB
12-10-09

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY			
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped. <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

Work Order ID 91341

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91341

Page 2

Item ID: D4694-3

Accept

N900040100

Setup Start ***NS1***

Revision ID: PRELIM

Item Name: Channel

Stop ***NS2***

Start Date: 04/10/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 19/10/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Bend as per dwg NC BRAKE	0.00							
130									
Brake NC		0.00				2			
Brake NC	Memo <i>C Brake upper Day</i>								<i>Sh 12/10/12</i>
									<i>12/10/12</i>
150	QC5- Inspect part completeness to step on W/O	0.00							
150									
QC		0.00				2			
Quality Control	Memo <i>Smb 12/10/12</i>								
160	Chemical Conversion Coat per QSI005 4.1	0.00							
160									
HandFinish		0.00				2			<i>12/10/15</i>
Hand Finishing	Memo								

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY				
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other	

Work Order ID 91341

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Page 3

Item ID: D4694-3

Accept

N900040100

Setup Start ***NS1***

Revision ID: PRELIM

Item Name: Channel

Stop ***NS2***

Start Date: 04/10/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 19/10/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan
Code

Accept Reject Reject Insp.
Qty Qty Number Stamp

180

QC7-Inspect Chemical Conversion Coat

0.00

180

QC

Memo

0.00

Quality Control

*Smb
12.10.16*

2

PTO

→

190

Identify as per dwg & Stock Location:

0.00

190

Packaging

Memo

0.00

Packaging

per dwg

43/3/21 (5)

200

QC21- Final Inspection - Work Order Release

0.00

200

QC

Memo

0.00

Quality Control

MLJ 13-03-21

WF, 210-17

POSITIVE RECALL

EFFECTIVE

12.10.05

AUTH

RELEASED

DAS

DATE

13/03/11

16

9-59

*to per A
17/03/11*

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: dh Date: 13/04/81QA Closed: dh Date: 13/3/86

Work Order: <u>91341</u> Part No. <u>D4694-3</u> NCR No. <u>13-2414</u>				DISPOSITION Rework <input type="checkbox"/> Scrap <input checked="" type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input checked="" type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
---	--	--	--	--	--	--	--	--	--	--	--

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/> Equip/Tooling <input type="checkbox"/> Operator <input type="checkbox"/> Material <input type="checkbox"/> Setup <input type="checkbox"/> Other <input checked="" type="checkbox"/> Process <input type="checkbox"/> Supplier <input type="checkbox"/> Training <input type="checkbox"/> Unapproved <input type="checkbox"/>	12/10/80	#1X	1	too many part cut for a preliminary QTY ①	S 052447 13/09/15	Destroyed no replac QTY ① <div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; margin: 10px;"> 35.75' </div>	SMB 12/10/80	SMB 12/10/80	S 452042 13/09/15

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions
---	---	---

<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled	<input type="checkbox"/> Other
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Picklist Print

October-04-12 3:21:07 PM

Page 1

Work Order ID: 91341

Parent Item: D4694-3

Parent Item Name: Channel

91341

D4694-3

Start Date: 04/10/2012

Required Date: 19/10/2012

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A NEW ISSUE 12-08-01 JLM VERIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6S.040		Purchased	No				sf	189.7578		0.504211	1.5		

M6061T6S 040

6061-T6 .040 Sheet

**

12-10-7

Location

Loc Qty

Loc Code

MAT021

189.7578

121030

0.5678

121099

189.19

121099

②

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY				
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

DART AEROSPACE LTD		Work Order: 91341
Description: CHANNEL		Part Number: D4694-3
Inspection Dwg: D4694-3 Rev: PA4		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

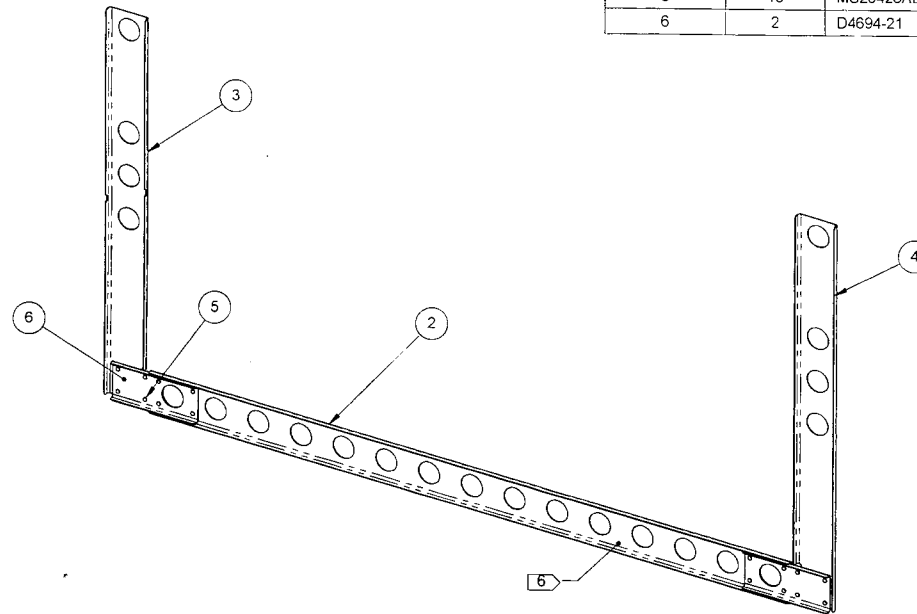
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø .129	+0.005 - .001	.130	2		V IRC2	
Ø 1.25	+0.012 - .001	1.251	2		V	
11.00	± .03	11.60	2		T IRC1	
1.606	± .010	1.598	2		V	
.26	± .03	.264	2		V	
.25	± .03	.253	2		V	
1.300	± .010	1.300	2		V	
1.80	± .030	1.800	2		V	
.27	± .030	.268	2		V	
.59	± .030	.584	2		V	
.18	± .030	.186	2		V	
10.00	± .030	10.00	2		T	
5.00	± .030	5.005	2		V	
2.50	± .030	2.503	2		V	
6.00	± .030	5.996	2		V	
1.00	± .030	1.001	2		V	
1.46	± .030	1.463	2		V	
.040	± .010	.039	2		V	
21.51	± .030	21.51	2		T	

Measured by: B	Audited by: SMB	Preliminary Approval:
Date: 12-10-7	Date: 12/10/09	Date:

Rev	Date	Change	Revised by	Approved
E	10.04.14	Added preliminary approval	KJ	

10.04.15

ITEM NO.	QTY. -041	PART NUMBER	DESCRIPTION
1	X	D4694-041	FWD CHANNEL ASSEMBLY
2	1	D4694-1	CHANNEL
3	1	D4694-3	CHANNEL
4	1	D4694-5	CHANNEL
5	16	MS20426AD4-3	RIVET
6	2	D4694-21	BRACE CHANNEL



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 91341 ML9

12-10-04

PRELIMINARY ISSUE

~~12~~ 12.07.25

D4694-041 FWD CHANNEL ASSEMBLY

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.92 lbs

PA4	CORRECTED TYPOS (ZN D3-1); D4694-21 WAS D4694-021	RF	12.07.25
REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	RF		
CHECKED	<i>[Signature]</i>		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	12.07.25		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO.
D4694

REV. PA4

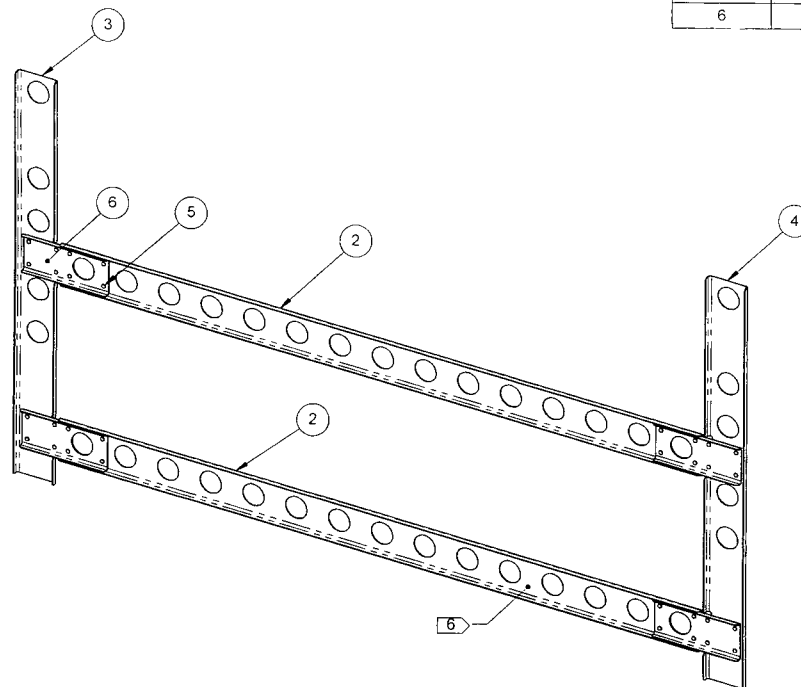
SHEET 1 OF 12

TITLE
STIFFENER

SCALE
NTS

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NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD

ITEM NO.	QTY. -043	PART NUMBER	DESCRIPTION
1	X	D4694-043	MIDDLE CHANNEL ASSEMBLY
2	2	D4694-1	CHANNEL
3	1	D4694-9	CHANNEL
4	1	D4694-10	CHANNEL
5	32	MS20426AD4-3	RIVET
6	4	D4694-21	BRACE CHANNEL



91341

D4694-043 MIDDLE CHANNEL ASSEMBLY

PRELIMINARY ISSUE

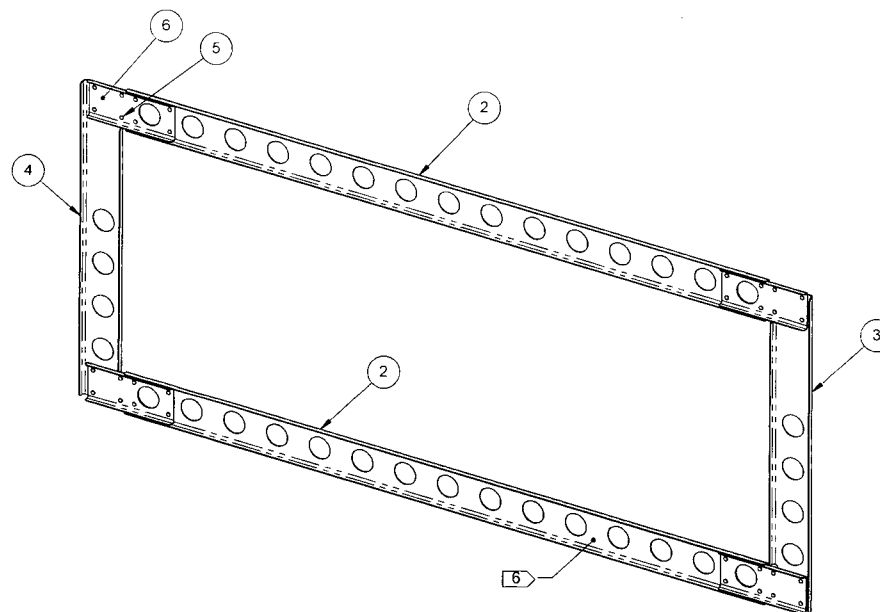
12.07.25

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 1.38 lbs

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. PA4
MFG. APPR.		D4694	SHEET 2 OF 12
APPROVED		TITLE	SCALE
DE APPR.		STIFFENER	NTS
DATE	12.07.25	<small>COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

ITEM NO.	QTY. -045	PART NUMBER	DESCRIPTION
1	X	D4694-045	AFT CHANNEL ASSEMBLY
2	2	D4694-1	CHANNEL
3	1	D4694-11	CHANNEL
4	1	D4694-12	CHANNEL
5	32	MS20426AD4-3	RIVET
6	4	D4694-21	BRACE CHANNEL



D4694-045 AFT CHANNEL ASSEMBLY

PRELIMINARY ISSUE

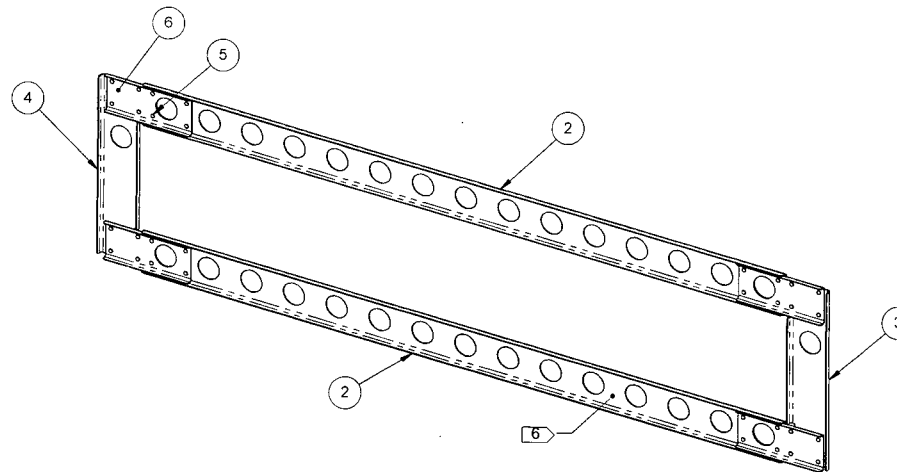
DF 12.07.25

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 1.28 lbs

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>DF</i>	DRAWING NO.	REV. PA4
MFG. APPR.		D4694	SHEET 3 OF 12
APPROVED		TITLE	SCALE
DE APPR.		STIFFENER	NTS
DATE	12.07.25	<small>COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

ITEM NO.	QTY. -047	PART NUMBER	DESCRIPTION
1	X	D4694-047	AFT CHANNEL ASSEMBLY
2	2	D4694-1	CHANNEL
3	1	D4694-13	CHANNEL
4	1	D4694-14	CHANNEL
5	32	MS20426AD4-3	RIVET
6	4	D4694-21	BRACE CHANNEL



D4694-047 AFT CHANNEL ASSEMBLY

PRELIMINARY ISSUE

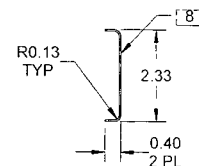
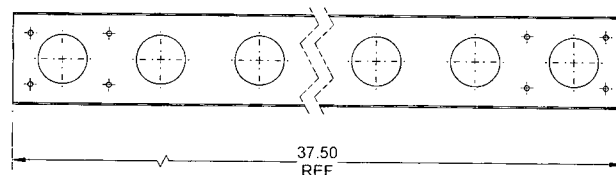
12.07.25

NOTES:

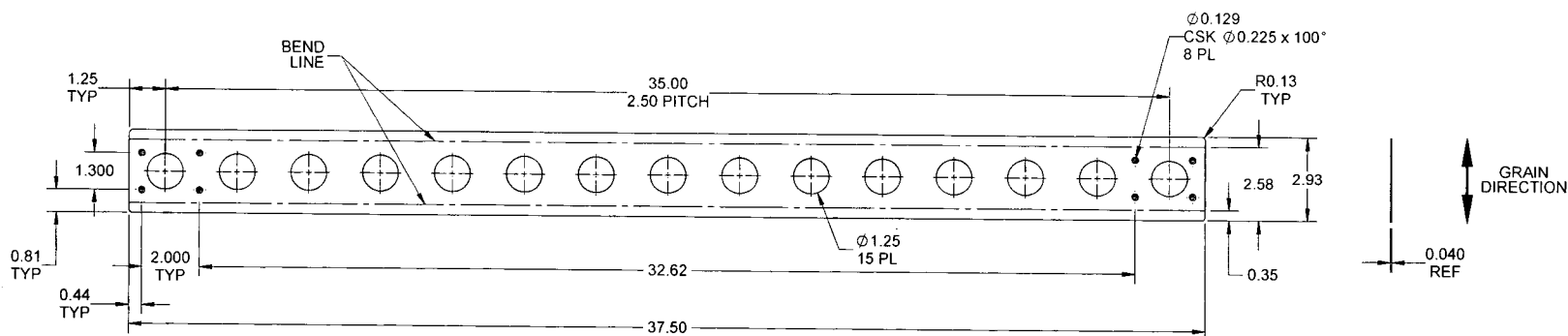
- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 1.13 lbs

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CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. PA4
MFG. APPR.		D4694	SHEET 4 OF 12
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DE APPR.		STIFFENER	NTS
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91341



D4694-1 CHANNEL
(MAKE FROM D4694-1F FLAT PATTERN)



D4694-1F FLAT PATTERN CHANNEL

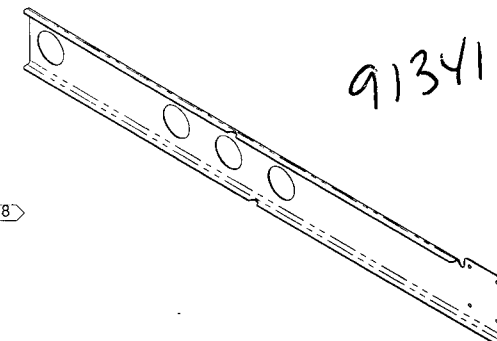
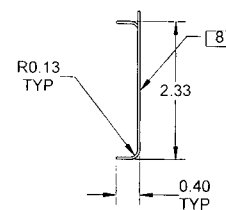
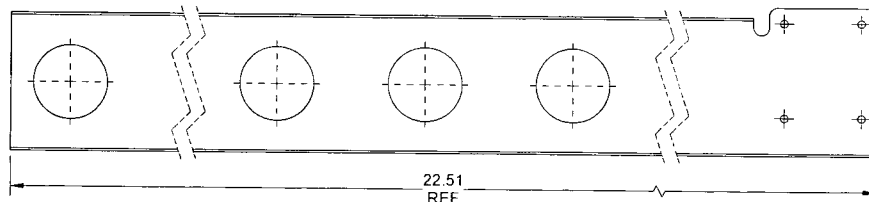
NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.040 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.040
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.36 lbs
- 8) CSK Ø0.225 x 100° ON THIS SIDE

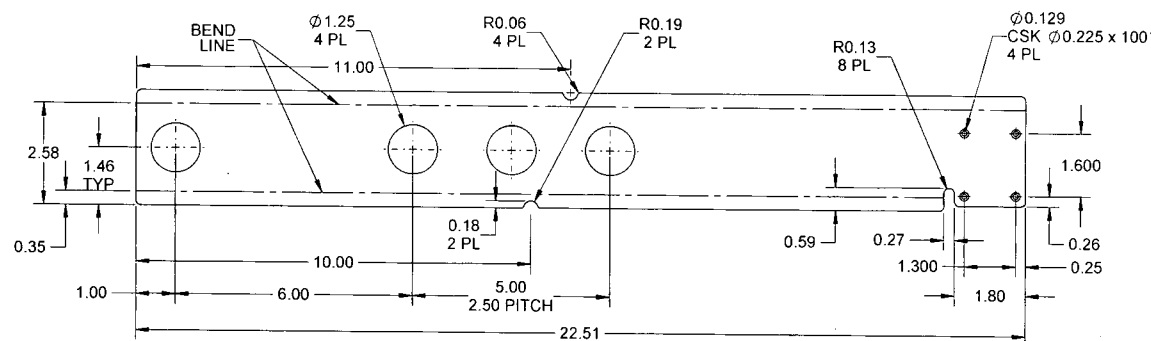
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CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. PA4
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D4694-3 CHANNEL
(MAKE FROM D4694-3F FLAT PATTERN)



D4694-3F FLAT PATTERN CHANNEL

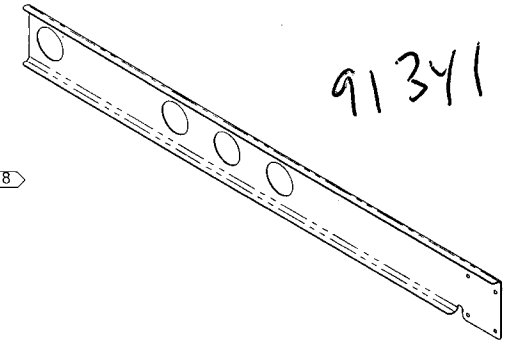
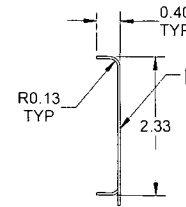
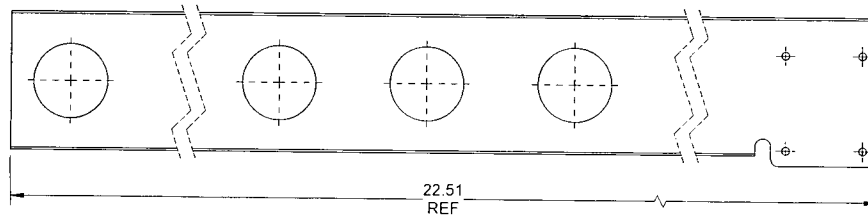
NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.040 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.040
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.24 lbs
- 8) CSK $\phi 0.225 \times 100^\circ$ ON THIS SIDE

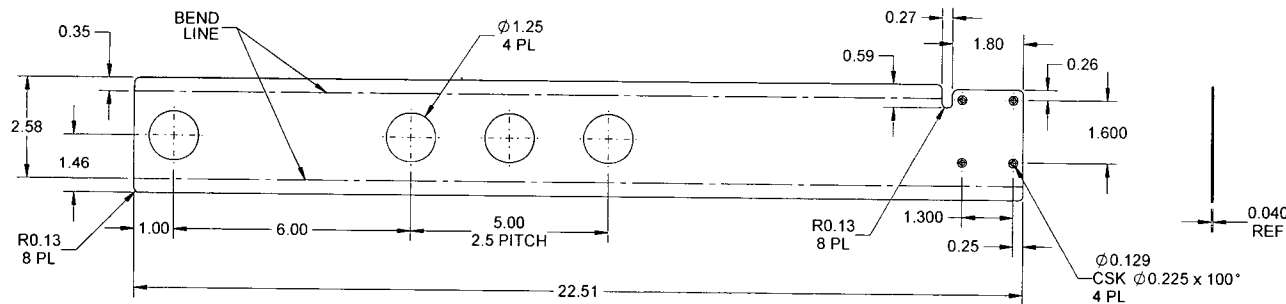
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D4694-5 CHANNEL
(MAKE FROM D4694-5F FLAT PATTERN)



GRAIN
DIRECTION

D4694-5F FLAT PATTERN CHANNEL

NOTES:

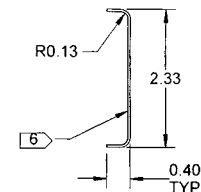
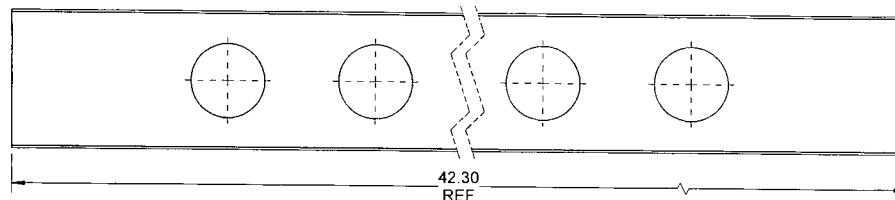
- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.040 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.040
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.24 lbs
- 8) CSK Ø0.225 x 100° ON THIS SIDE

PRELIMINARY ISSUE

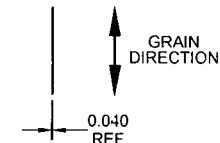
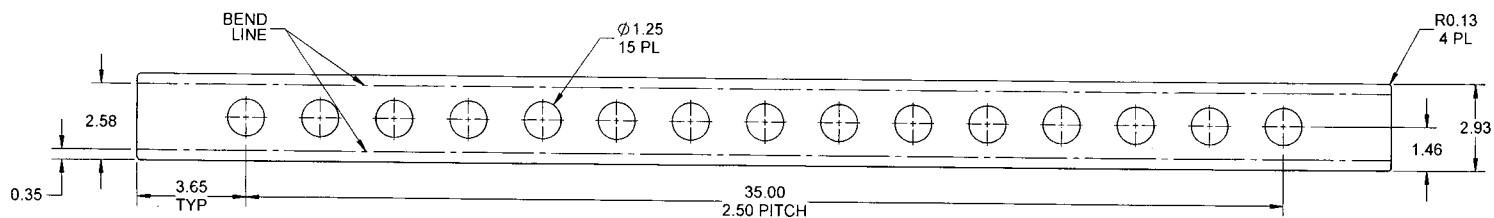
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MFG. APPR.		D4694	SHEET 7 OF 12
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91341



D4694-7 MIDDLE CHANNEL
(MAKE FROM D4694-7F FLAT PATTERN)



D4794-7F FLAT PATTERN MIDDLE CHANNEL

PRELIMINARY ISSUE

12.07.25

NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.040 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.040
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.41 lbs

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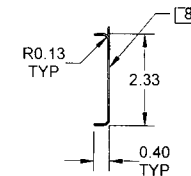
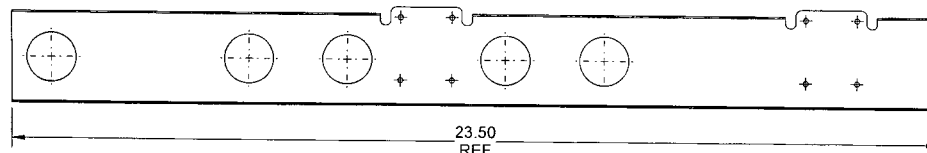
D4694-9
ISOMETRIC VIEW

2.33

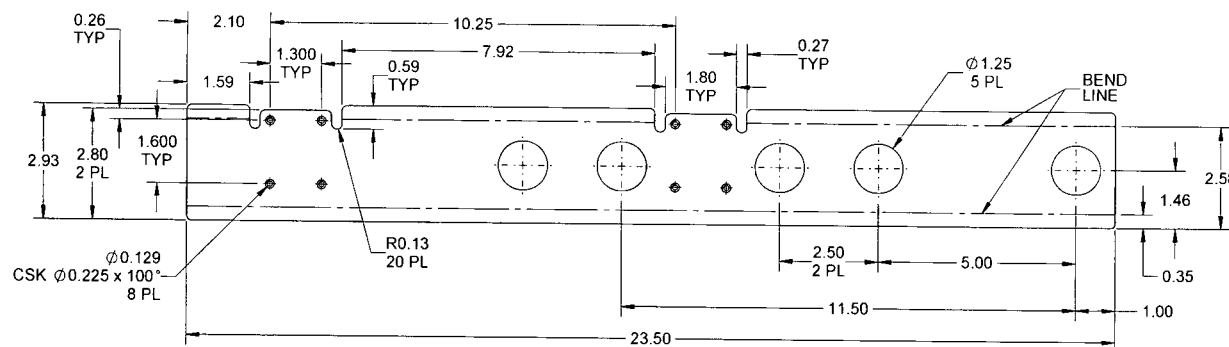
.13
YP

8

D4694-9
ISOMETRIC VIEW



D4694-9 CHANNEL, SHOWN
D4694-10 OPPOSITE
(MAKE FROM D4694-9F FLAT PATTERN)



GRAIN
DIRECTION

PRELIMINARY ISSUE

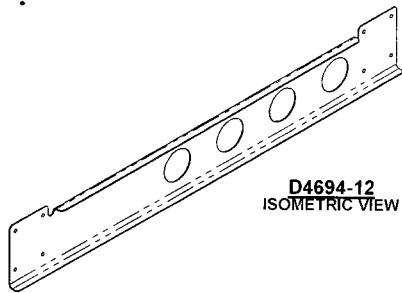
12.07.25

D4794-9F FLAT PATTERN CHANNEL

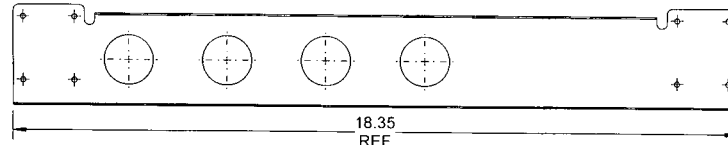
NOTES:

- NOTES
- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.040 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.040
 - 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
 - 7) WEIGHT: 0.24 lbs
 - 8) CSK $\varnothing 0.225 \times 100^\circ$ ON THIS SIDE

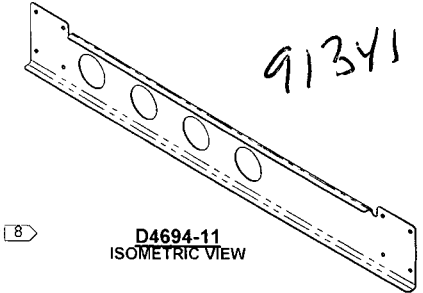
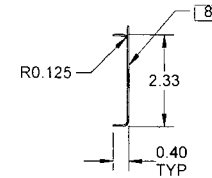
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DRAWN	RF		SHEET 9 OF 12
CHECKED	<i>JS</i>		SCALE
MFG. APPR.			NTS
APPROVED			
DE APPR.			
DATE	12.07.25		



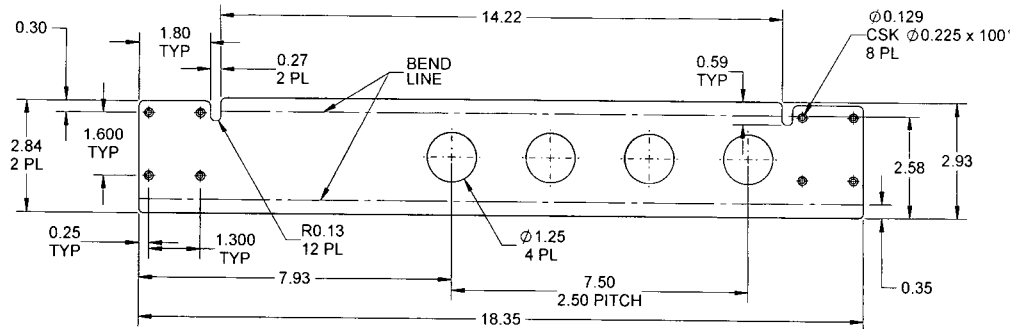
D4694-12
ISOMETRIC VIEW



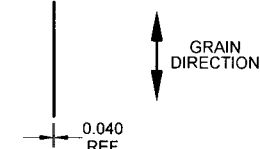
D4694-11 CHANNEL, SHOWN
D4694-12 OPPOSITE
(MAKE FROM D4694-11F FLAT PATTERN)



D4694-11
ISOMETRIC VIEW



D4794-11F FLAT PATTERN CHANNEL



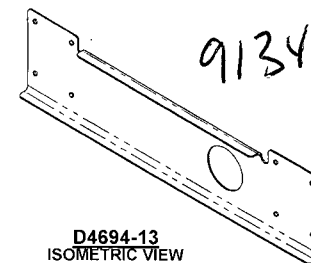
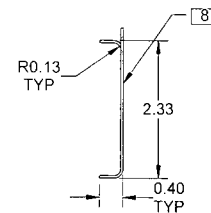
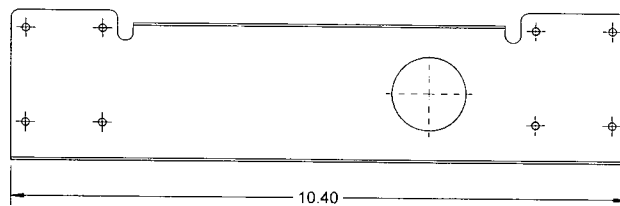
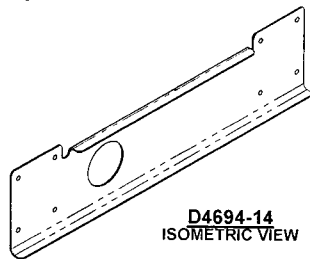
NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.040 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.040
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.19 lbs
- 8) CSK Ø0.225 x 100° ON THIS SIDE

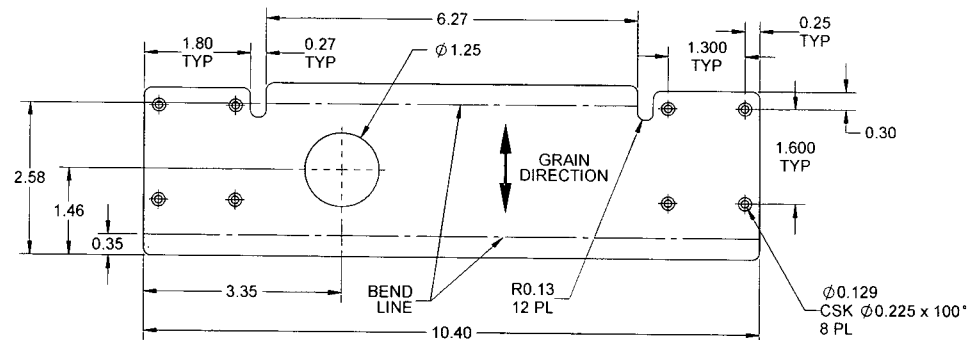
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**D4694-13 CHANNEL, SHOWN
D4694-14 OPPOSITE
(MAKE FROM D4694-13F FLAT PATTERN)**



D4794-13F FLAT PATTERN CHANNEL

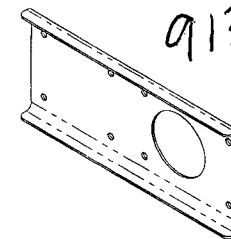
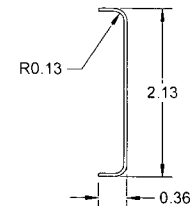
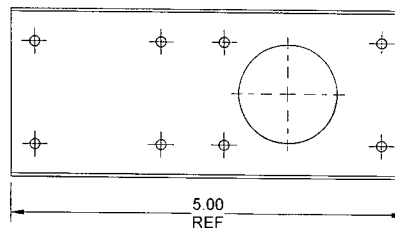
NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.040 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.040
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI.005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.11 lbs
- 8) CSK Ø0.225 x 100° ON THIS SIDE

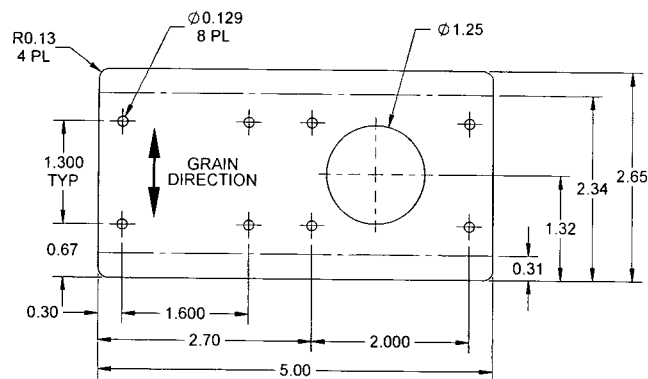
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D4694-21 BRACE CHANNEL
(MAKE FROM D4694-21F FLAT PATTERN)



D4794-21F FLAT PATTERN BRACE CHANNEL

NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.040 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.040
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.05 lbs
- 8) CSK $\phi 0.225 \times 100^\circ$ ON THIS SIDE

PRELIMINARY ISSUE

12.07.25

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Receiving Report

Date:

Batch No: 11/2/099

Dart P/O:

Supplier:

Packing Slip:

Invoice:

Receipt:

Yes

Yes

Cash

No

No

Cr

Release Note Attached:

Waybill Attached:

Shipment Complete:

QC6 Inspection

Work Order

Yes

Yes

Yes

✓

No

No

~~No~~


N/A

N/A

19N/A

N/A

Discrepancies						Comments
Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	

Initials of receiver (if shipment OK) Level 12 

Initials of receiver (if shipment OK) Level 12

Location

Production/Admin:

Date

Date
Received/Costing

Initial

Monday, March 19, 2012 7:11:48 AM

All Vendors PO ID PO16401 Receipt Dates from 3/19/2012 to 3/19/2012 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-COP001	Thyssenkrupp Materials CA Ltd								
PO16401	7		M6061T6S.040	sf	3/16/2012	3/19/2012	288.0000	\$1.68	0.0000	0	\$485.19
CAD	No		6061-T6 .040 Sheet	sf	288.0000	DESJ02		\$485.19	0.0000	0	
			121099								
	8		M6061T6S.032	sf	3/16/2012	3/19/2012	192.0000	\$2.36	0.0000	0	\$452.82
	No		6061-T6 Sheet 0.032"	sf	192.0000	DESJ02		\$452.82	0.0000	0	
			121099								
Total Received Quantity:										480.0000	
Total Qty to Inspect (PO U/M):										0.0000	
Total Reject Quantity:										0.0000	
Total Receipt Value:										\$938.01	
Total Balance Due Quantity:										0.0000	

Ship From: **THYSSENKRUPP MATERIALS NA**
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G
No: PEC 758116
Ship Date 16Mar12 at 15:23 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

B I L L O F L A D I N G					
1) Our Order PEC-428541-	1 Your PO # 16401				
ALUMINUM SHEET 6061 T6					
.0400 Nom X 48.0000" X 144.0000"		Quantity	PCS	MTR	Wt LBS
Heat Number Tag No		288.00 SFT	6		163
7051601 47835					
2) Our Order PEC-428541-	2 Your PO # 16401				
ALUMINUM SHEET 6061 T6					
.0320 Nom X 48.0000" X 144.0000"		Quantity	PCS	MTR	Wt LBS
Heat Number Tag No		192.00 SFT	4		87
7174701 47836					
TOTAL:		Tags 2	PCS 10		LBS 250

ADD ON TO 428539 SUR-CHARGE PAID***SHIP TOGETHER

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 1 SKID GW. 288 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

Page: 1Continued

1 crate

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION
TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

12/3/19

DOC : V/0080127751

DATE : 2004-09-21

PROD. REF. : 0000163537

NR : 48103/01

PAGE : 1 / 1



INSPECTION CERTIFICATE

CUSTOMER : CORUS ALUMINIUM ROLLED PRODUCTS US

475 N. MARTINGALE ROAD, SUITE 400
SCHAUMBURG 60173 USAYOUR ORDER NUMBER : PO2354 (Samuel's PO# A15696)
OUR ORDER NUMBER : 48103/01
DOCUMENT NUMBER : V/0080127751Corus Aluminium N.V.
A. Stokkelien 67, 2670 Duffel - Belgium
Tel. 32 (0)18 30 21 11 - Fax (0)18 30 27 90DESCRIPTION : T5-QQA-250/11-AMS 4027-ASTM B209/B597-NOT INTENDED FOR USE IN AIRCRAFTS
DIMENSIONS : 144" X 48" X 0.04"
ARTICLE NO. : AL SHEET(STENC)-6061

COIL NUMBER	CAST NUMBER	CHEMICAL COMPOSITION (%)							
		SI	FE	CU	MN	MG	CR	TI	ZN
		MIN 0,40		0,15		0,8	0,04		
		MAX 0,8	0,7	0,40	0,15	1,2	0,35	0,15	0,25
001	7051601	0,68	0,4	0,22	0,08	1,0	0,16	0,02	0,01

OTHERS : EACH : MIN 0,05 MAX
TOTAL : MIN 0,15 MAX

MECHANICAL PROPERTIES				
TEST- NUMBER	1 N/MM2 = 1 MPA = 0,1 HBAR = 0,102 KG/MM2 = 0,145 KSI	/A = REAR END	/M = MIDDLE	/V = FRONT END /O = RANDOM SAMPLING
	RM N/MM2	RP02 N/MM2	A %	
001	MIN MAX /M	336	276	16

HEAD OF LABORATORY,
XAVIER SCHELTJENSCharleston Aluminum LLC
480 Frontage Rd.
Gaston, SC 29053

Corus Aluminium Rolled Products - Corus Aluminium Extrusions

From: Copper and Brass Sales

Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401745746

Part: PO: PEC - 237563

Wgt: 162.570 LB Date: 03/12/2012

James K. Baber



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO16401

Purchase Order Date 3/09/12

PO Print Date 3/09/12

Page Number 3 of 3

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Destination-Collect

Special Inst: MATERIAL: 6061-T6/T651/T6510/T6511/T62
ALUMINUM BAR AS PER QQ-A-225/8
OR AMS-QQ-A-225/8 ORAMS
4117/4128/4115/4116 OR QQ-A-200/8 OR
AMS-QQ-A-200/8 OR AMS 4160 OR
ASTM B211 OR ASTM B221

7	M6061T6S.040	6061-T6 .040 Sheet	3/16/12 Yes	288.00 sf	Yours ppd	\$1.6593	\$477.88
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Special Inst: MATERIAL: 6061-T6/T62 ALUMINUM
SHEET
AS PER QQ-A-250/11 OR AMS-QQ-A-
250/11
OR AMS 4025 OR AMS 40327 OR ASTM
B209

8	M6061T6S.032	6061-T6 Sheet 0.032"	3/16/12 Yes	192.00 sf	Yours ppd	\$2.3229	\$446.00
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Special Inst: MATERIAL: 6061-T6/T62 ALUMINUM
SHEET
AS PER QQ-A-250/11 OR AMS-QQ-A-
250/11
OR AMS 4025 OR AMS 40327 OR ASTM
B209

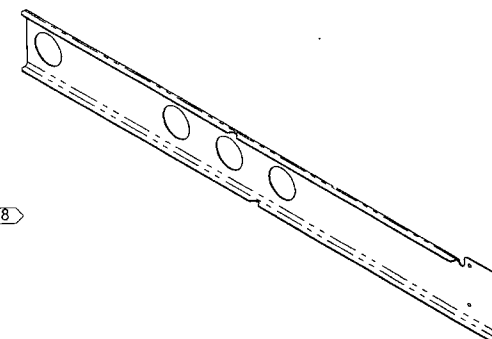
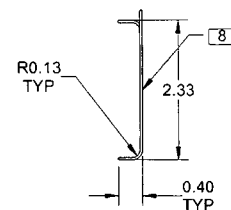
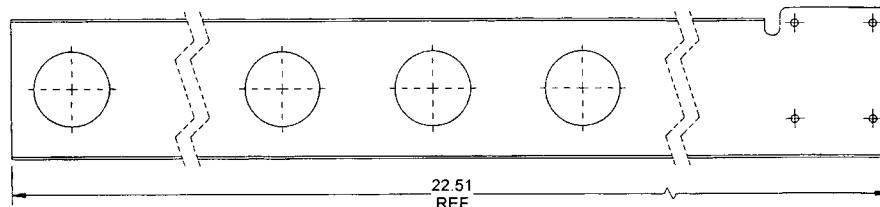
PO Total: \$1,822.53

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

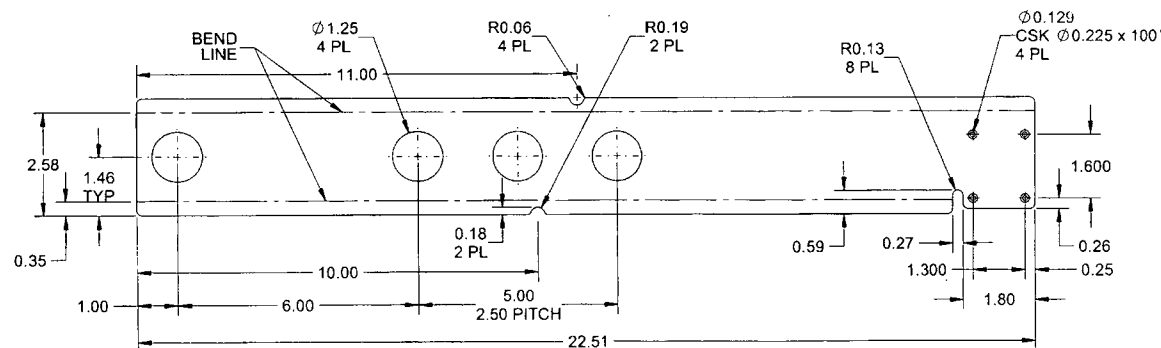
No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr: 2

Change Date: 3/09/12



D4694-3 CHANNEL
(MAKE FROM D4694-3F FLAT PATTERN)



D4694-3F FLAT PATTERN CHANNEL

NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.040 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.040
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.24 lbs
- 8) CSK Ø0.225 x 100° ON THIS SIDE

RELEASED
2012-11-05

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	RF	D4694	SHEET 6 OF 13
APPROVED	RF	TITLE	SCALE
DE APPR.	RF	CHANNEL ASSEMBLY	NTS
DATE	12.07.25	<small>COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	